What I think COVID-19 Really Is

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Wuhan, China Seafood Market – 1st cases

Trussed live chicken in vegetable basket
Improvised table for cutting meat over plastic bucket
Live frogs for sale
Fish and frog remains
Frog being slaughtered for client
Nylon industrial gloves
Unwashed buckets
Dirty digital scale

Which of the following most likely caused 198 people to become acutely ill with respiratory symptoms (pneumonia) at Wuhan seafood market?

a. A new genetic disease like Cystic Fibrosis
b. A new virus
c. Autoimmune disease
d. Bad seafood (poison from contaminated meats)

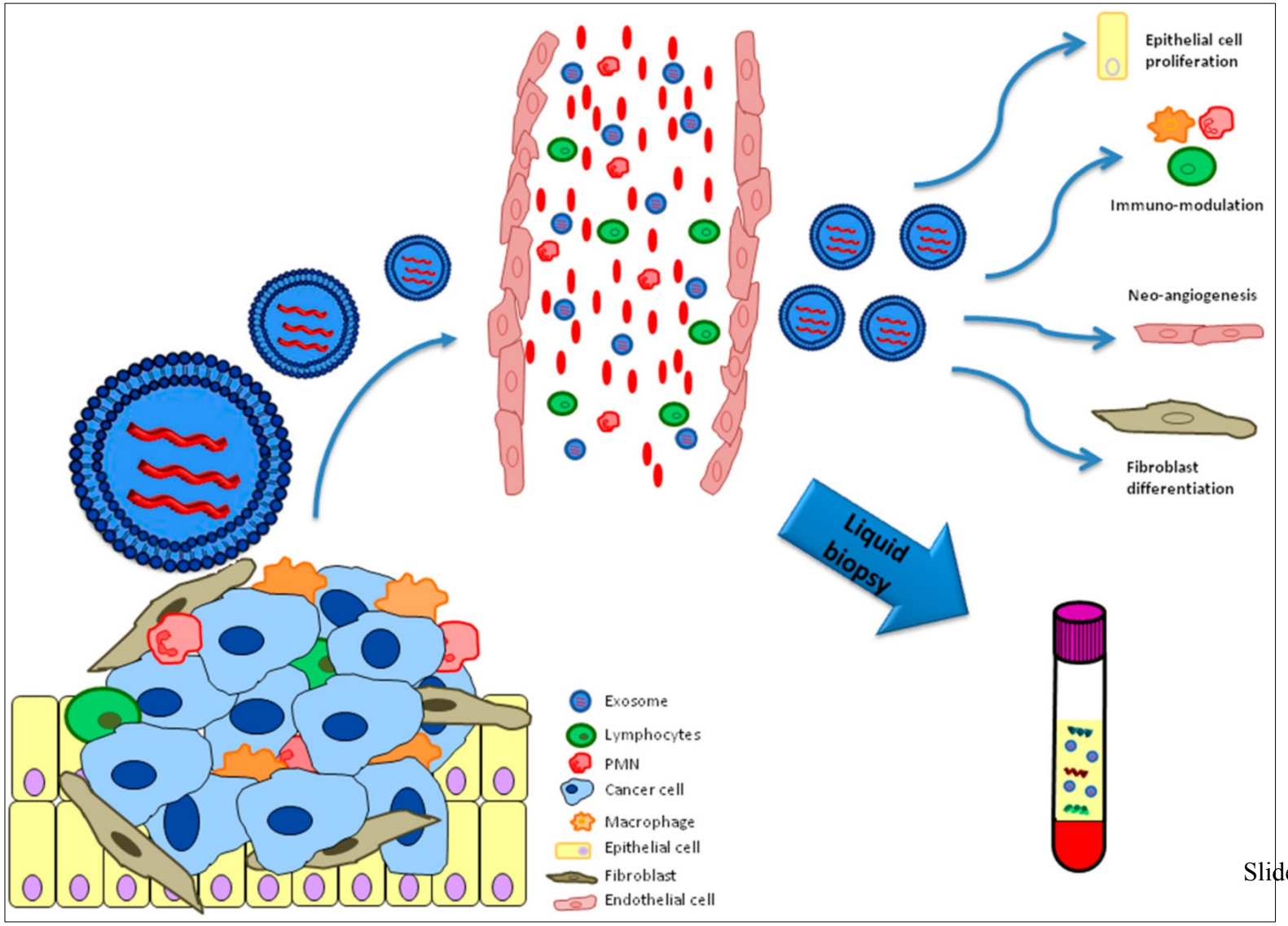
What did Chinese and other scientists think caused the mysterious illness?

"The disease was determined as viral induced pneumonia by clinicians according to clinical symptoms and other criteria including body temperature rising, lymphocytes and white blood cells decreasing, new pulmonary infiltrates on chest radiography, and no obvious improvement upon three days of antibiotic treatment. It appears that most of the early cases had contact history with the original seafood market…"[12]

What did they do to prove a virus?

1. Collect bronchoalvelolar (lung) fluid and other samples
2. Find and separate genetic material from the sample
3. Sequence the genetic material
4. “rapidly developed a qualitative PCR detection…” (diagnostic test)
5. What about purifying the “virus” first??? Where did the genetic material come from?

Protocol for lung cancer genetic biomarker[17]



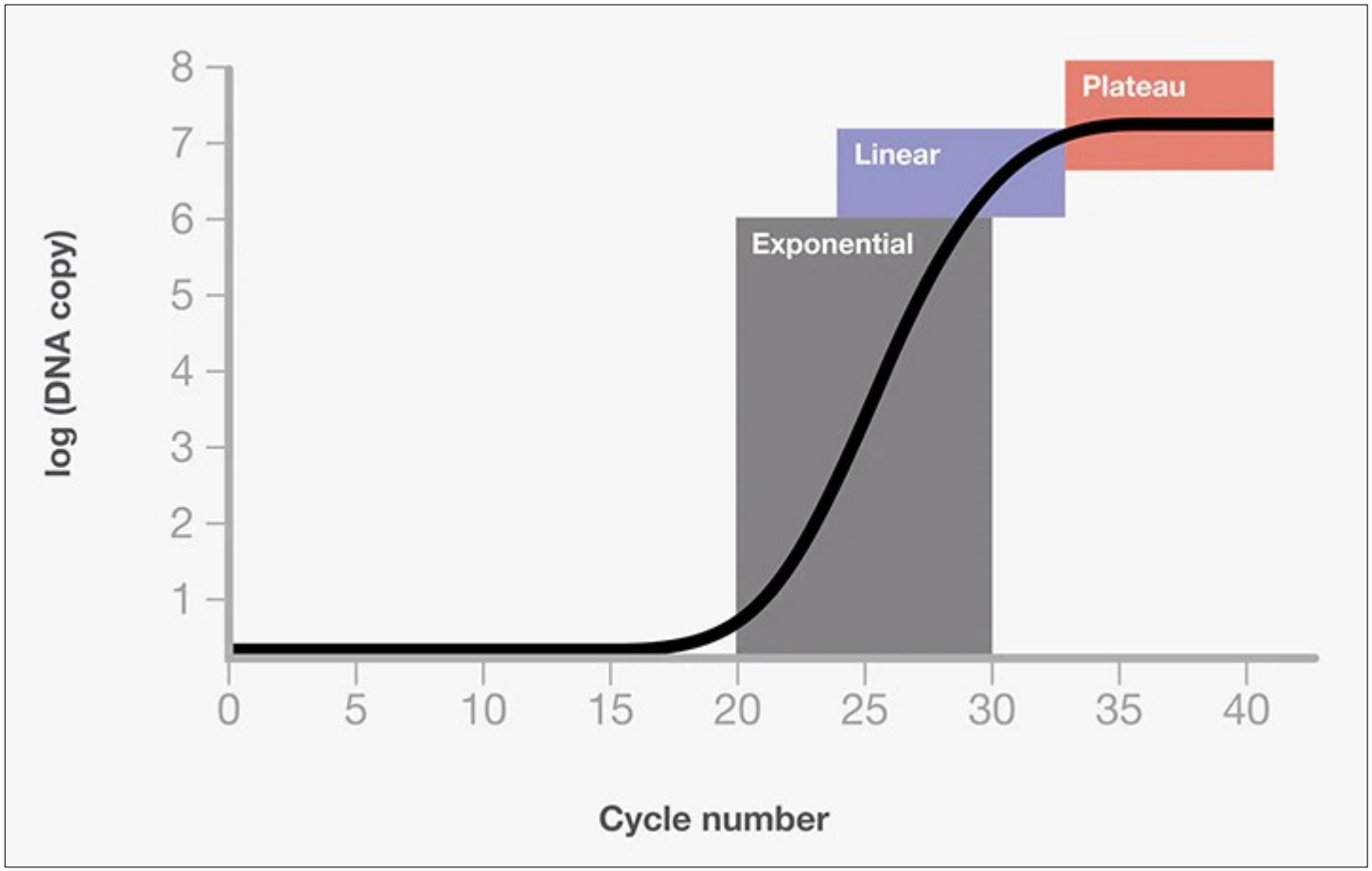
COVID-19 RT-PCR Test

- Tests for RNA sequence, not the virus
- There is no gold standard
  - COVID-19 has never been purified and visualized
  - Only visualized from one patient inside a human cell
  - RT-PCR never tested against gold standard

Thus, accuracy of test unknown!!! (estimated 80% false positive rate)

PCR Test

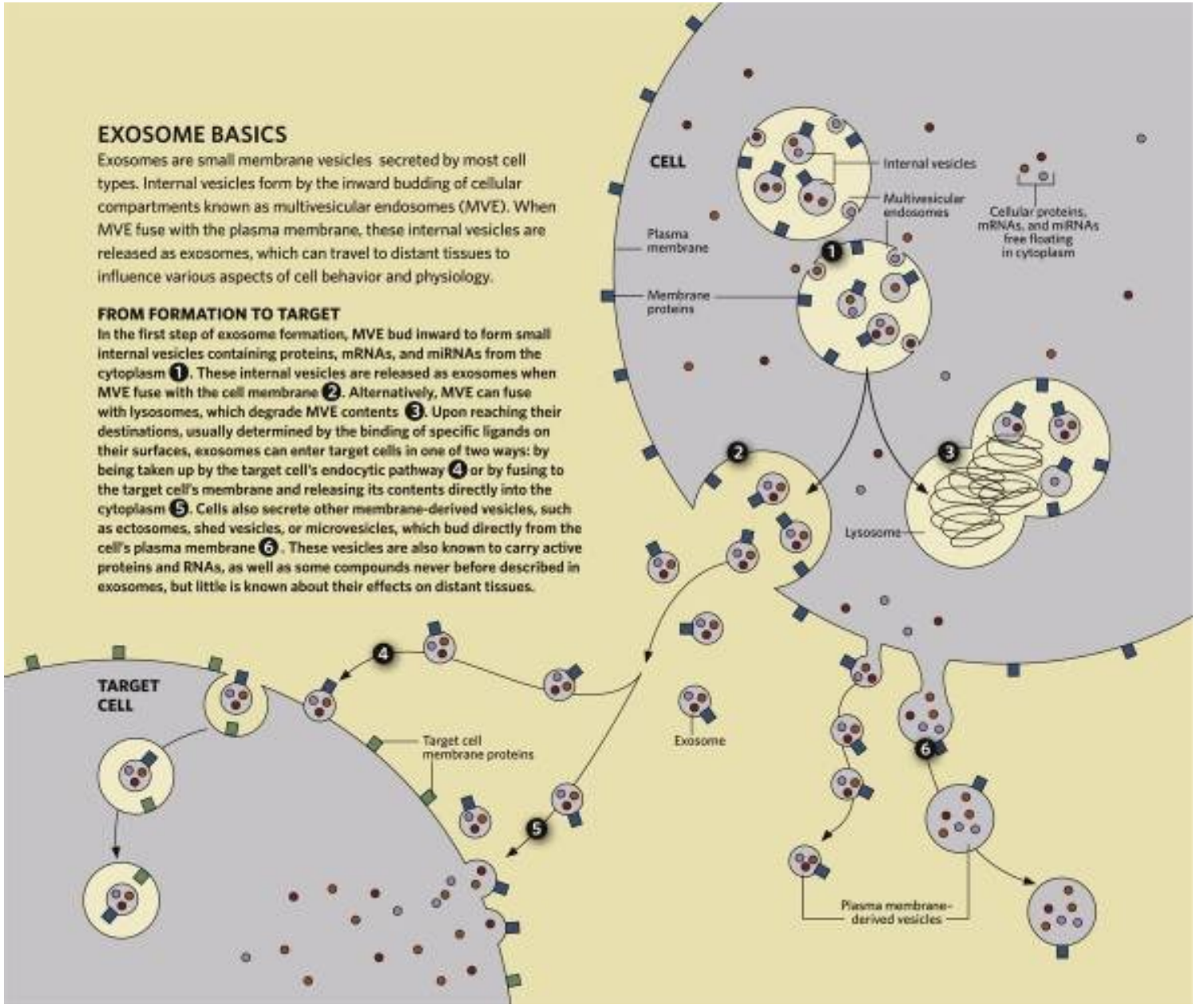
"The number of cycles is usually carried out 25–35 times but may vary upon the amount of DNA input and the desired yield of PCR product. If the DNA input is fewer than 10 copies, up to 40 cycles may be required to produce a sufficient yield. More than 45 cycles is not recommended as nonspecific bands start to appear with higher numbers of cycles."

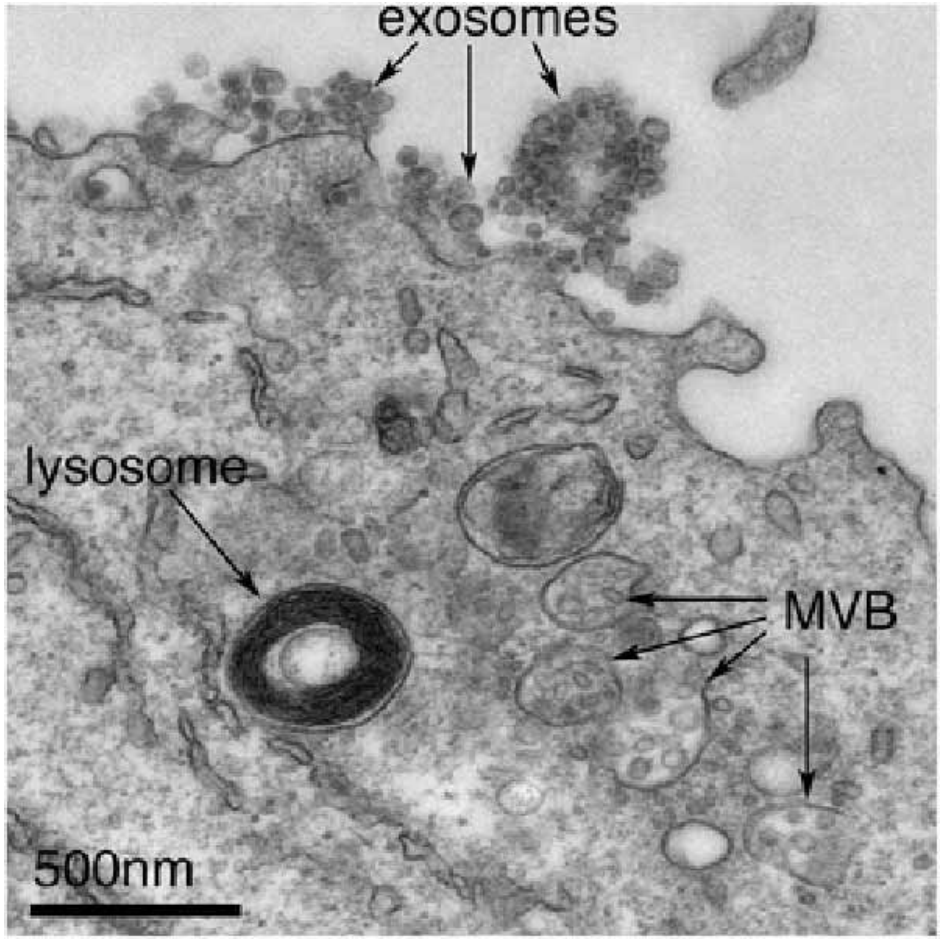


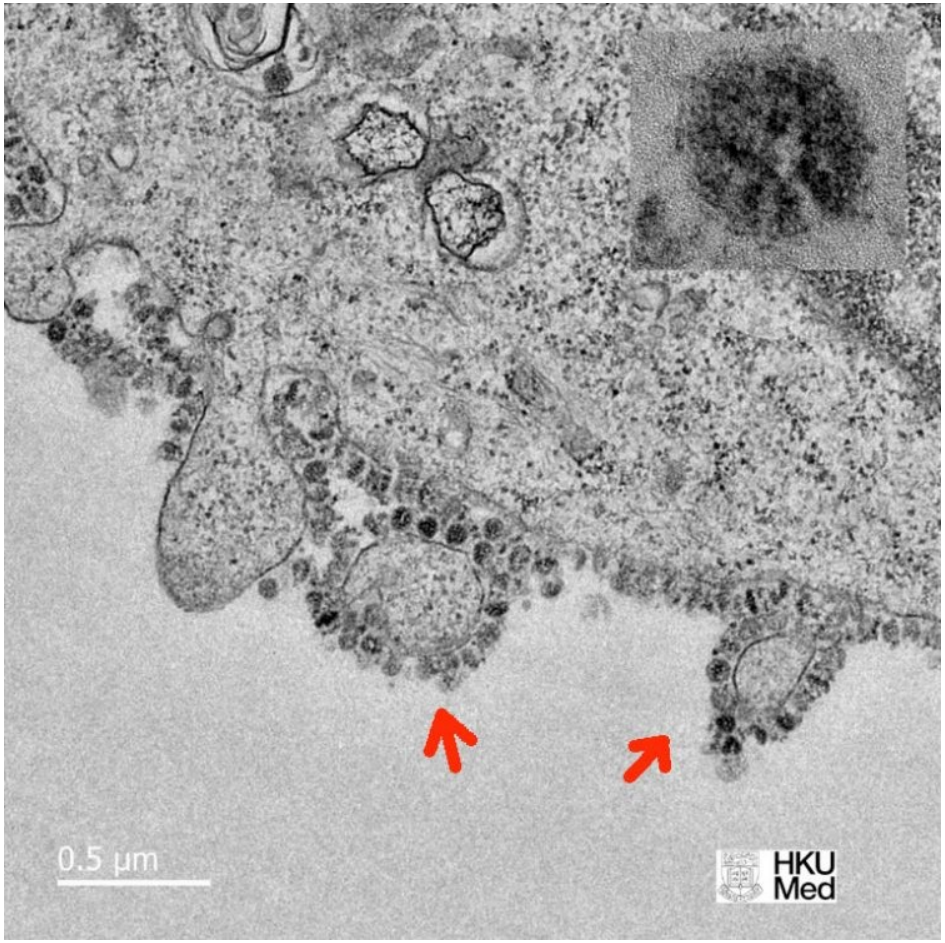
“What PCR does is to select a genetic sequence and then amplify it enormously. It can accomplish the equivalent of finding a needle in a haystack; it can amplify that needle into a haystack. Like an electronically amplified antenna, PCR greatly amplifies the signal, but it also greatly amplifies the noise. Since the amplification is exponential, the slightest error in measurement, the slightest contamination, can result in errors of many orders of magnitude.”

EXOSOMES: WHAT ARE THEY?

Exosomes naturally occurring in the body


EXOSOME BASICS
Exosomes are small membrane vesicles secreted by most cell types. Internal vesicles form by the inward budding of cellular compartments known as multivesicular endosomes (MVE). When MVE fuse with the plasma membrane, these internal vesicles are released as exosomes, which can travel to distant tissues to influence various aspects of cell behavior and physiology.
FROM FORMATION TO TARGET
In the first step of exosome formation, MVE bud inward to form small internal vesicles containing proteins, mRNAs, and miRNAs from the cytoplasm 1. These internal vesicles are released as exosomes when MVE fuse with the cell membrane 2. Alternatively, MVE can fuse with lysosomes, which degrade MVE contents 3. Upon reaching their destinations, usually determined by the binding of specific ligands on their surfaces, exosomes can enter target cells in one of two ways: by being taken up by the target cell's endocytic pathway 4 or by fusing to the target cell's membrane and releasing its contents directly into the cytoplasm 5. Cells also secrete other membrane-derived vesicles, such as ectosomes, shed vesicles, or microvesicles, which bud directly from the cell's plasma membrane 6. These vesicles are also known to carry active proteins and RNAs, as well as some compounds never before described in exosomes, but little is known about their effects on distant tissues.
CELL
Internal vesicles
Multivesicular endosomes
Cellular proteins, mRNAs, and miRNAs free floating in cytoplasm
Plasma membrane
Membrane proteins
Lysosome
Exosome
TARGET CELL
Target cell membrane proteins
Plasma membrane-derived vesicles

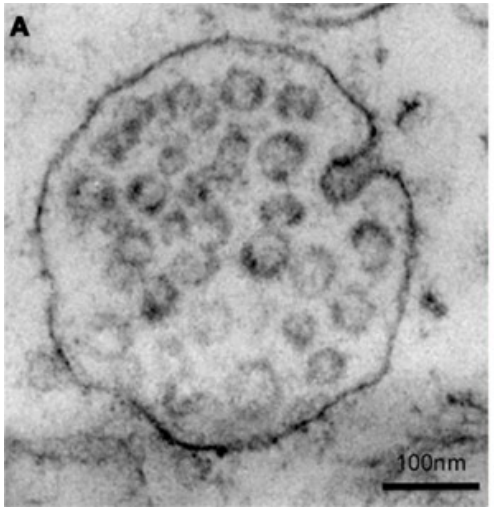


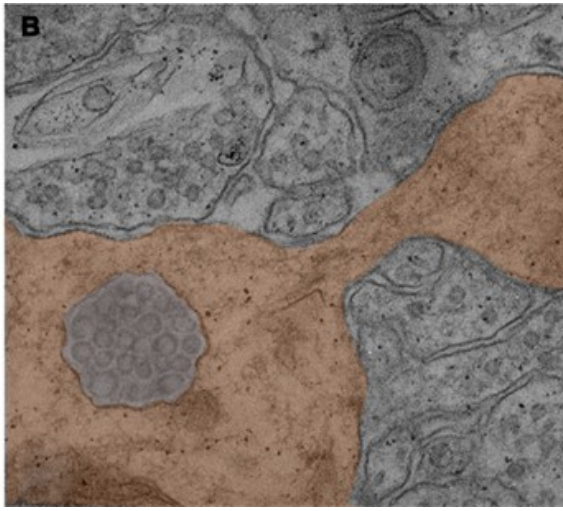


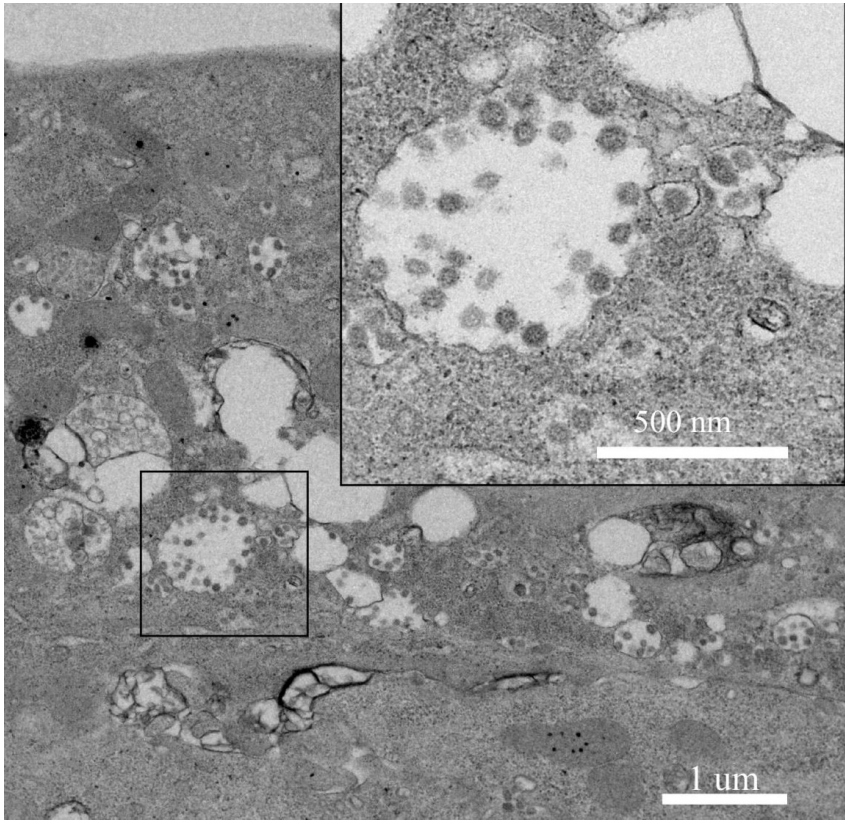
Exosomes

COVID-19

Multivesicular Endosome (Exosome before it leaves cell)







COVID-19 inside cell

Why current treatments work

- Hydroxychloroquine
  - Releases lysozomal enzymes into cell to digest toxins
- Vitamin C
  - Powerful antioxidant helps reduce damage from toxin-induced oxidative stress (free radicals)

	Exosomes	COVID-19
Diameter inside cell	500 nm (MVE)	500 nm
Diameter outside cell	100 nm	100 nm
Receptor	ACE-2	ACE-2
Contains	RNA	RNA
Found in	Bronchoalveolar (lung) fluid	Bronchoalveolar (lung) fluid

James Hildreth, M.D.
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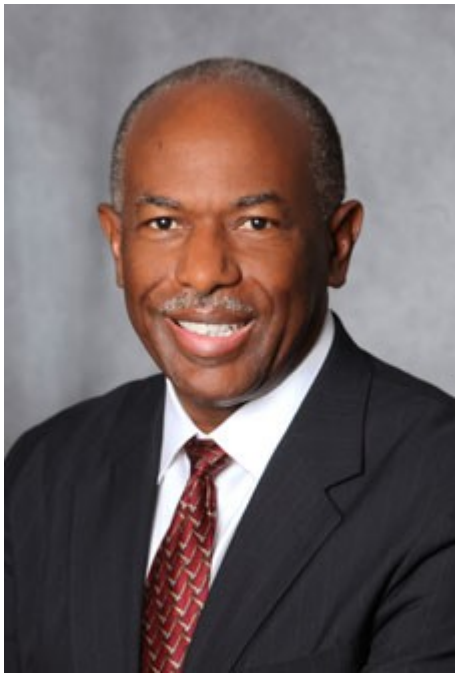
of Meharry Medical College
Former Professor at Johns Hopkins
HIV researcher



“…the virus is fully an exosome in every sense of the word.”

What Induces Exosomes?

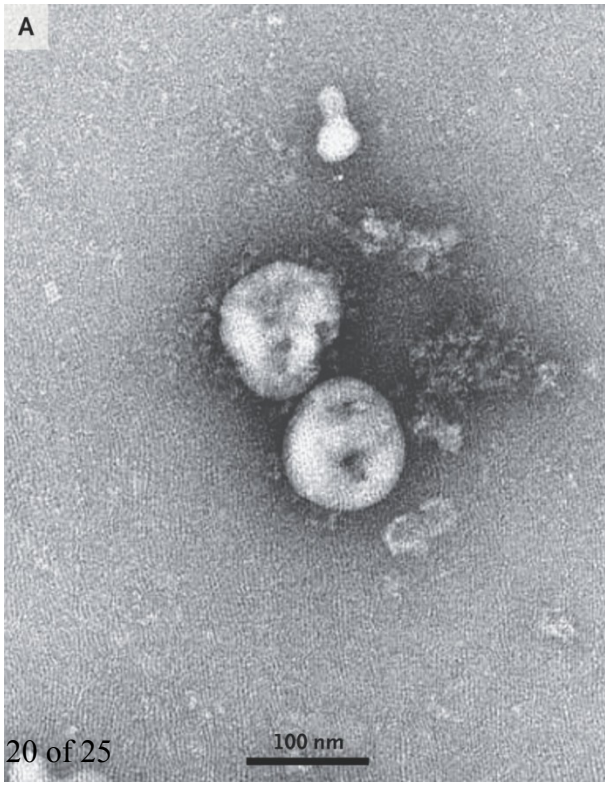
- Toxic substances
- Stress (fear)
- Cancer
- Ionizing radiation
- Infection
- Injury
- Immune response
- Asthma
- Diseases (unspecified in literature, many)
- Electromagnetic Radiation (5G) – no research

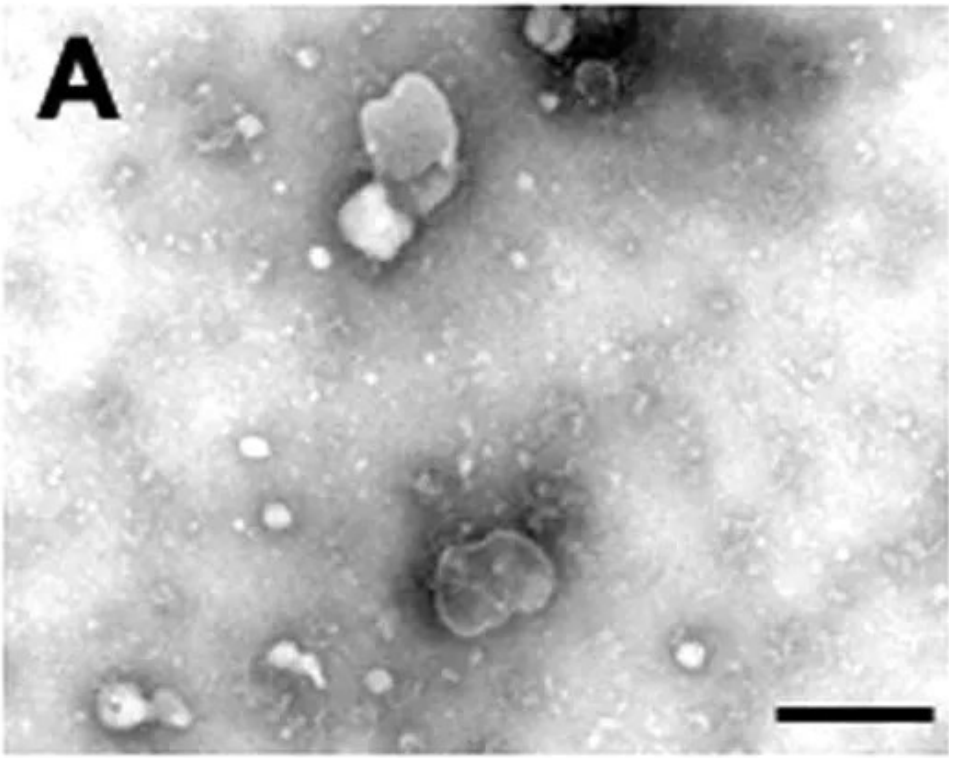
A Novel Coronavirus from Patients with Pneumonia in China, 2019

NEJM

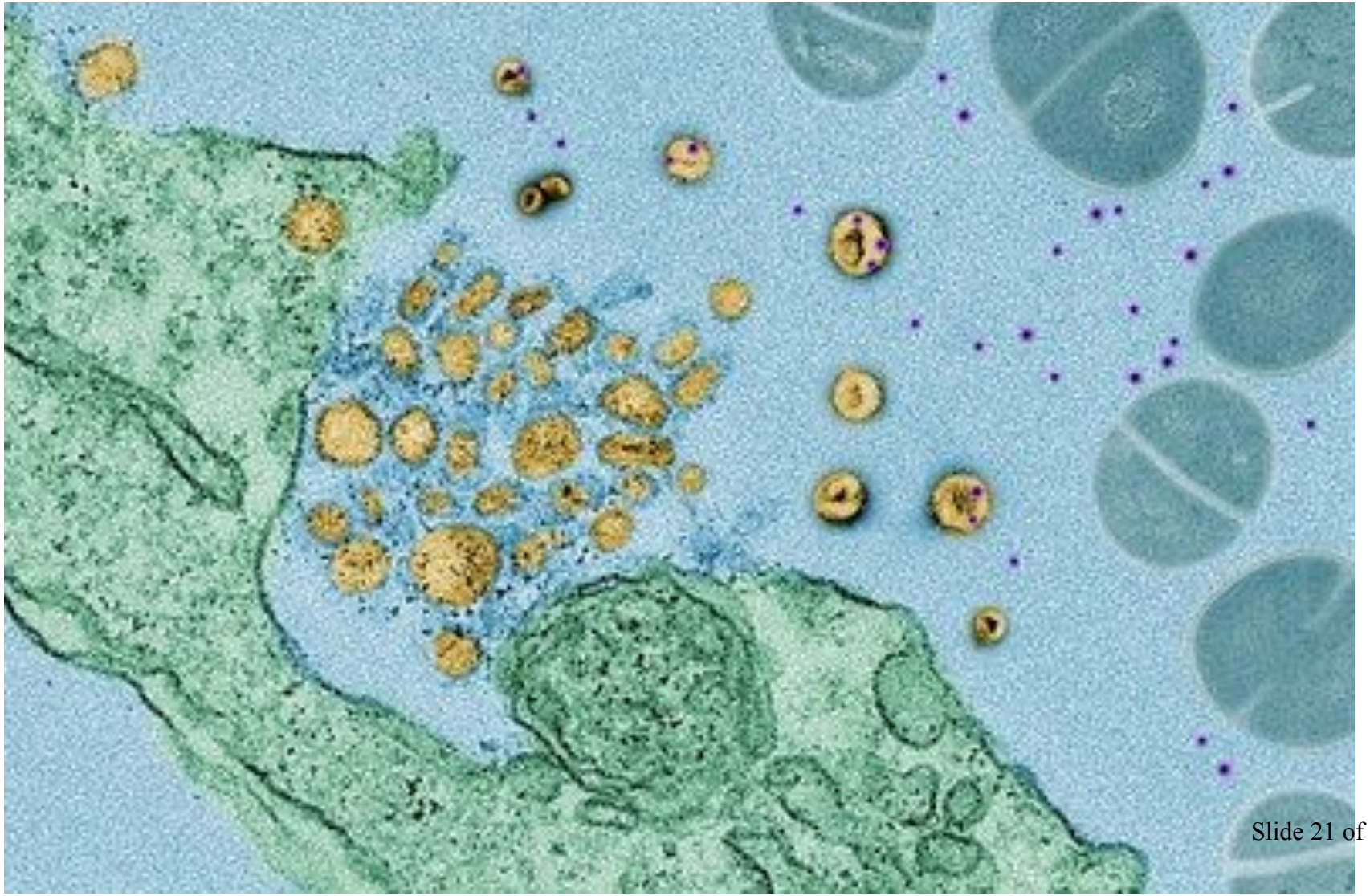
COVID-19 isolation method:

1. Take BAL sample form sick patient
2. Centrifuge and take supernatant
3. Incubate with lung cancer cells
4. Purify and examine under electron microscope





"Exosomes act much like a sponge, preventing the toxins for a time from attacking the cell, while toxins that are not corralled are left to burrow through cell membranes," says study co-senior investigator Ken Cadwell, PhD.



Conclusions

- Respiratory illness is caused by an insult, toxic or otherwise, which cause production of exosomes
  - Poison, stress, infection (flu, pneumonia), electromagnetic radiation
  - Express exosomes when healthy and sick (increased)
    - PCR amplification can detect both
- RT-PCR actually tests for host RNA from exosomes
- COVID-19 is actually exosomes
  - The result, NOT the cause of the illness
  - Function: exosomes help remove toxins

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